CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-09/134c/CUBE/2016-17 12.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Improvements to Drain in Abbigere Janatha colony in Ward No.12, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/55/2016-17 Dated: 02.09.2016

* **Sample ID** : RCC drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 12.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.09.2016	12.10.2016	8.132	478.3	21.26
2	14.09.2016	12.10.2016	8.235	493.2	21.92
3	14.09.2016	12.10.2016	8.335	512.2	22.76

* Information is furnished by the Customer/Representative

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH C.
Quality Manager

AE-12
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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T-2377

Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-09/134c/CUBE/2016-17 15.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Improvements to Drain in Abbigere Janatha colony in Ward No.12, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/55/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 15.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.09.2016	15.10.2016	8.102	473.6	21.05
2	17.09.2016	15.10.2016	8.230	492.3	21.88
3	17.09.2016	15.10.2016	8.359	510.2	22.68

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-09/134c/CUBE/2016-17 21.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements to Drain in Abbigere Janatha colony in Ward No.12, BBMP, Bangalore.
* Reference	: AEE/SSD/PR/55/2016-17 Dated: 02.09.2016
* Sample ID	: Culvert covering slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 21.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.09.2016	21.10.2016	8.185	478.3	21.26
2	23.09.2016	21.10.2016	8.239	502.3	22.32
3	23.09.2016	21.10.2016	8.310	510.2	22.68

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VISHWANATH C.
Quality Manager

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-09/134c/Kerb stone/2016-17

26.09.2016

TEST REP CONCRETE CORE (KERB STONE)

* Name of Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to Drain in Abbigere Janatha colony in Ward No.12, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/55/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Kerb stone
Sample Received on	:	19.09.2016
Date of Testing	:	26.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.952	24.30	12.38	13.37	14.03	17.54
2	50.00	79.00	0.392	2527.14	1.58	0.955	25.90	13.19	14.25	13.60	17.00
3	50.00	80.00	0.399	2540.11	1.60	0.957	28.10	14.31	15.46	14.79	18.49

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VISHWANATH C.
Quality Manager

AC - 12
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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಫೀಕ್‌ನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CSR-09/134c/Precast slab/2016-17 29.09.2016

TEST REPORT CONCRETE CORE (PRECAST SLAB)

* Name of Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to Drain in Abbigere Janatha colony in Ward No.12, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/55/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Precast slab
Sample Received on	:	25.09.2016
Date of Testing	:	29.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.399	2508.75	1.62	0.959	29.50	15.02	16.23	16.92	21.15
2	50.00	82.00	0.409	2540.27	1.64	0.961	32.90	16.76	18.10	17.39	21.74
3	50.00	83.00	0.415	2546.48	1.66	0.963	33.50	17.06	18.43	17.75	22.19

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Civil-Tech Consultants & Engineers Bangalore

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